

Physico-chemical Analysis in the Field of Nitric
Acid-Treatment of Phosphates, by A. P. Belopolakiy,
M. N. Shulgina, M. T. Serebrennikova, S.Y. Shpunt,
10 pp.

RUSSIAN, per, Zhur Prik Khim, Vol X, No 3, 1937,

SLA R-2868

Sci

Jul 59

92,388

The Reduction of Iron Catalysts Used in the
Synthesis of Ammonia, by S. S. Lachinov,
A. A. Vvedenskiy, 26 pp.

RUSSIAN, per, Zhur Prikl. Khim, Vol X, 1937,
pp 435-455.

SIA R-2468

Sci - Chem

Jun 59

89,554

Markov, V. K. and Nagornaya, N. A.
THE CHANGE IN THE PROPERTIES OF SILICA GELS
ON WASHING AS A CONSEQUENCE OF THE CHANGE
IN THEIR SUBMICROSCOPIC STRUCTURE. [1963] 15p.
11 refs.

Order from OTS or SLA \$1.60

63-14587

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1937,
v. 10, p. 833-838.

DESCRIPTORS: *Gels, *Silicon compounds, *Dioxides,
*Sorption, Impregnation, Structural properties, Porosity,
Surface-active substances, Adsorption.

(Chemistry--Physical, TT, v. 10, no. 4)

63-14587

I. Markov, V. K.
II. Nagornaya, N. A.

Office of Technical Services

Relating to Electrolysis Theory of Cryolite
Alumina Solutions, by I. P. Tverdovskiy,
V. S. Molchanov, 19 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol X, No 6,
1937, pp 1011-1019.

Sci Tr Center
RT-1527

Scientific - Chemistry

18,881

Pressure of Water Vapor Over Molten Sodium and
Potassium Hydroxides, by A. M. Bauman, 19 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol X, ~~NEODIX~~
No 7, 1937, pp 1165-1172.

Sci Trans Center
RT-2888

Scientific - Chemistry

Jan 56 CTS/DEX
30,736

Pavlovich, P. I.
POLYMERIZATION OF VINYL CHLORIDE IN
SOLUTIONS AND EMULSIONS. [1961] 12p. 11 refs.
Order from OTS or SLA \$1.60 61-18185

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1937,
v. 10, p. 1071-1079.

DESCRIPTORS: Vinyl chlorides, Chlorides,
Polymerization, Solutions.

(Unannounced)

61-18185

I. Pavlovich, P. I.

Office of Technical Services

Physicochemical Analysis in the Nitric Acid
Treatment of Phosphates. II. Solubility of
Calcium Nitrate in Aqueous Solutions of Nitri-
Acid, by A. P. Belopol'skiy and V. V. Urusov,
6 pp.

RUSSIAN, per, Zhur Prik Khim, Vol X, 1937,
pp 1178-1182.

SLA R-2158

Sci

72,113

cy
Solubility of Sodium Fluosilicate in
Phosphate Solutions and the Salting-
Out Effect of Sodium Chloride, by M.
L. Chepelevetskiy and T. Bolts, 12 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol X,
1937, pp 1183-1193.

OTS 63-14609
SIA R-2175

Sci

Aug 58

72,122

D'yachkov, V. D.
INTERACTION OF THE SODIUM ALUMINATE AND
SILICA SOLUTIONS. 14 Feb 45, 8p. (figs. omitted)
10 refs.

Order from OTS or SLA \$1.10

63-10352

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1937,
v. 10, p. 1211-1215.
Another trans. is available from SLA as R-4960, 8p.

DESCRIPTORS: *Sodium compounds, *Aluminates,
Chemical reaction, *Silicon compounds, Colloids,
Chemical precipitation, Chemical analysis, Oxides.

(Chemistry--Inorganic, TT, v. 9, no. 11)

63-10352

I. D'yachkov, V. D.

Office of Technical Services

Determination of Viscosity and Density of Aqueous
Solutions of Technical Caustic, by A. I. Sevtsov,
6 pp.

RUSSIAN, per, Zhur Prik Khim, Vol X, No 8, 1937,
pp 1500-1503.

SCI Tr Center
RT-1580

Scientific - Chemistry

CIS/DEX

18,761

Physicochemical Analysis of the Nitric Acid Treatment of Phosphates III. The System $\text{CaO-P}_2\text{O}_5\text{-H}_2\text{O}$ at 50° , by A. P. Belopol'skiy, M. T. Seretrennikova, S. Y. Skunt, 9 pp.

RUSSIAN, per, Zhurav Prik Khim, Vol X, 1937, No 3, pp 1523-1529.

SLA R 3017

Sci

Jul 59

92, 387

Physicochemical Investigation of Complex Fertilizers.
Ternary System: $H_2O-NH_4NO_3-NH_4H_2PO_4$, by A. G. Bergman,
P. P. Bochkarev, 5 pp.

RUSSIAN, per, Zhur Prik Khim, Vol X, 1937, pp
1531-1536.

SLA R-3294

Sci

Aug 59

93,580

Derivation and Characteristics of the Tanning
Action of Water - Soluble Products of the Con-
densation of Resorcinol with Furfural, by A. N.
Mikhaylov, 12 pp.

RUSSIAN, per, Zhurnal Prikladnoy Khimii, Vol ^{IV} 4,
No 9, pp 1579-1585.

1937

ACSI H-4993

Sci - Chem

Mar 60

119,518

A Colorimetric Method for the Determination of
Zirconium, by V. A. Mazarenko. UNCL

RUSSIAN, per, Zhur Prikl Khim, Vol X, No 9, 1937,
pp 1696-1699.

RAE 776

Sci - Phys; Chem
Apr 59

Don't handling. Lohs 4/5/59
M. 148

84,847

The Reduction of Iron Catalysts Used in the
Synthesis of Ammonia, by S. S. Lachinov,
26 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol X, 1957,
pp 1847-1866.

SLA R-2600

Sci - Chem

Jun 59

89, 553

Grinevich, V. M. and Klapchuk, S. V.
OVER DE TOEPASSING VAN KRIWOJ-ROG-HAEMA-
TIET ALS GRONDSTOF VOOR DEN AMMONIAK-
KATALYSATOR (Utilization of KRIVOI-ROG-hemati-
te as a Raw Material for the Ammonia-catalyst) tr. by
A. Bosch-Sukacz and G. J. M. Fritschy. 7p. 3 refs.
MTWL: 122, (text in Dutch).
Order from OTS or ETC \$1.55

61-17727

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1937,
v. 10, p. 1868-1870.

DESCRIPTORS: *Ammonia, Synthesis, Catalysts,
*Magnetite.

61-17727

- I. Grinevich, V. M.
- II. Klapchuk, S. V.
- III. MTWL-122
- IV. Stichting Moelijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

The Kinetics of the Process of Interaction of
Copper With Solutions of Ferric Chloride, by
S. A. Pletenev, S. A. Pavlov, 25 pp.

RUSSIAN, per, Zhur Prik Khim, Vol X, No 12, 1937,
pp 1957-1967.

SLA R-861

Sci -- Chemistry
(Oct 57

54,438

Yermolenko, N. F. and Zhurman'skaya, N. M.
PREVENTION OF BOILER SCALE BY PROTECTIVE
COLLOIDS. [1961] [8]p. (3 figs. omitted) 6 refs.
Order from LAC or SIA m\$1.80, pb\$1.80. CI-10323

Transl. of *Zhurnal Prikladnoy Khimii* (USSR) 1937,
v. 10 [no. 12] p. 2005-2012.

(Continued)

CI-10323

1. Colloids--Applications
2. Boilers--Scale
3. Feed water--Corrosive effects

- I. Yermolenko, N. F.
- II. Zhurman'skaya, N. M.

101526

Office of Technical Services

Topchiev, A. V. and Paushkin, Ya. M.
DE HETEROGENE KATALYSE DER SULFONERING
VAN BENZEEN MET BEHULP VAN ZWAVELZUURAN-
HYDRIDE BIJ 250-450° (Heterogeneous Catalyst for
the Sulfonation of Benzene with Sulfur Trioxide at
250-450°) tr. by G. J. M. Fritschy. 8p. 5 refs.
MTWL: 39. (text in Dutch).
Order from: OTS or ETC SI, 55

61-17673

Trans. of Zhurnal Prikladnoi Khimii (USSR) v. 12,
p. 64-68.

DESCRIPTORS: *Benzenes, *Sulfonates, Sulfur
compounds, Oxides, *Catalysts.

61-17673

- I. Topchiev, A. V.
- II. Paushkin, Ya. M.
- III. MTWL-39.
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Production of Titanic Acid Gel and
Examination of its Absorption Properties,
by S. F. Verkhovskii, A. K. Verkhovskaya,
M. V. Kartaynel, 10 --.
RUSSIAN, per, Zhurnal Prikladnoi Khimii,
Vol 11, No 1, 1938, pp 4-11.
TC-374

Sci
Aug 67

336,232

Preparation of Trihydroxyglutaric Acid From
Xylose, by W. A. Sychev, 25 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XI, No 1, 1958,
pp 68-81. 649794

FDD/X-3717
OTIA 4751

Sci - Chem

Sep 59
Nov

101, 514

R-123-N

RUSSIAN, per, Zhur Prik Chem, Vol XI, No 1,
1938, pp 68-82.

*JPRS for Picatinny Arsenal

memo dtd 28 Jul 59

The Alkaloid of the Nicotiana Glauca Plant
by M. I. Khmoora, 14 pp.
RUSSIAN, per, Zhur Prik Khim, Vol 11, No 1,
1938, pp 105-108.
K-H-914 e

321,676

Sci - Biological
Mar 67

The Ternary System HF-HF-H₂O, by I. Tammanayev,
10 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XI, 1938, pp
214-222.

SLA R-~~24~~ 3339

Sc1

Aug 59

93,551

Kiprianov, G. I. and Shostak, F. T.
WINNING VAN MALEINEZUUR DOOR KATALYTISCHE
OXYDATIE VAN BENZOL (Preparation of Maleic Acid
by Catalytic Oxidation of Benzene) 16p. 15 refs.
MTWL: 140. (text in Dutch).
Order from OTS or ETC \$1.85

61-17710

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1938,
v. 11, p. 471-480.

DESCRIPTORS: *Benzenes, Oxidation, Catalysis,
*Maleic acid, Preparation.

61-17710

- I. Kiprianov, G. V.
- II. Shostak, F. T.
- III. MTWL-140
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Variations of the Properties of Smoke in
the Fermentation of Tobacco, by S. L.
Krainev, 16pp.

RUSSIAN, per, Zhurnal Prikladnoi Khimii,
Vol 11. No 3, 1938, pp 515-522.

H-H-909 b

322,304

Sci - Chemistry
Mar 67

Telegin, V. G. and Sidorov, N. V.
HET ELECTROSMELTEN VAN DE KATALYSATOR
VOOR DE AMMONIAK-SYNTHESE (Electro Fusion
of the Ammonia-synthesis Catalyst) tr. by
A. Bosch-Sukacz and G. J. M. Fritschy. 16p. 17 refs.
MTWL: 131. (text in Dutch).
Order from OTS or ETC \$1.85

61-17715

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1938,
v. 11, p. 588-596.

DESCRIPTORS: *Ammonia, Synthesis, *Catalysts,
Melting.

61-17715

I. Telegin, V. G.
II. Sidorov, N. V.
III. MTWL-131
IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Catalytic Oxidation of Nitrogen Monoxide, by
N. P. Kurin, I. O. Blokh, 33 pp.

RUSSIAN, per, Zhur Prikl Khim, No 11, 1938,
pp 734-753.

Sci Tr Center RT -2211

Scientific - Chemistry *SLA R-2898*
Apr 55 CTS

22,814

Zal'kind, Yu. and Markov, I.
SOME CYCLOPENTANE DERIVATIVES. 9p. 15 refs.
MTWL: 619.

Order from OTS or ETC \$1.55

61-17364

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1938,
v. 9, no. 5, p. 818-822.

DESCRIPTORS: *Cyclopentanes. Preparation.

61-17364

- I. Zal'kind, Yu.
- II. Markov, I.
- III. MTWL-619
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Preparation of Glycerol and of Amides of High-
Molecular Fat Acids by Aminoanalysis of Oils and Fats,
by A. I. Gshenshteyn, Ye. A. Izraelovich, 9 p.

RUSSIAN, per, Zhur Prikl Khim, 1938, Vol XI, No 6,
pp 967-974.

SLA 59-20733

Sci
Mar 60
Vol 3, No 1

119,874

Corrosion of Copper in Aqueous Solutions of Ammonia
Compounds I. The Mechanism of the Corrosion, by
E. M. Zaretskiy, G. V. Akimov, 13 p

RUSSIAN, per, Zhur Prikl Khim, Vol XI. 1938, pp
1161-1171.

SLA R-2956

Sci

Jul 59

92,732

The Synthesis of p-Methylbenzyl acetate From
Toluene, by P. P. Shorygin, A. V. Bogdanova, 5 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XI, No 7/8,
pp 1217-1221, 1938.

Assoc Tech Serv 30J17R

Sci - Chem

Aug 58

70,570

The Production of Sulfur From Gypsum in Combination
With the Manufacture of Ammonia and Soda. Part II.
Investigation of the Physiochemical Properties of
Aqueous Suspensions of Calcium Sulfide, by
G. N. Evetskii.

RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 11,
1938, pp 1311-1319.

Order from ATS as 14Z128R. \$17.85.

WFO 72-00752-07A

Jan 73

Ivanova, Z. G. and Rogovin, Z. A.
THE EFFECT OF THE ADDITION OF PLASTICIZERS
ON THE PHYSICO-MECHANICAL PROPERTIES OF
ACETYL CELLULOSE FILMS. III. THE MECHA-
NISM OF PLASTICIZATION. [1960] 22p. 9 refs.
Order from SLA mi\$2.70, ph\$4.80 60-18704

Trans. of [Zhurnal Prikladnoy Khimii] (USSR) 1938
[v. 11, no. 9] p. 1348-1360.

143,014

60-18704

1. Plasticizers--Physical effects
2. Plastic films--Mechanical properties

- I. Ivanova, Z. G.
- II. Rogovin, Z. A.
- III. Title: Mechanism...

Office of Technical Services

(Unannounced)

Electrolytic Preparation on Non-Carbonic
Chromium From Solutions of Trivalent
Chromium Salts, by L. E. Golts, et al.

RUSSIAN, per, Zhur Prik Khim, Vol XI,
1938, pp 1398-1422.

CSIRO

Sci - Chem
Jun 62

199,373

Mechanism of the High Temperature ~~M~~ Hydrogenation of
Aromatic Hydrocarbons, by R. I. Prokopets, 10 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XI, No 10, 11,
1938, pp 1471-1474.

US Dept of Commerce
Patent Office
Sci Lib

165,412

Sci
Aug 61

The Heat Evaporation of Water From Phosphoric Acid
Solutions of Various Concentrations at 800, by K.
I. Zagvozdkin, 9 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XI, 1938, pp
1543-1547.

SLA R-2577

Sci - Chem

Jun 59

89,595

Volatilization of Phosphorus and Fluorine From
Khibinsk Apatite, by K. Zagvozdkin, S. Boltz, 11
pp.

RUSSIAN, per, Zhur Prik Khim, Vol XI, 1938,
pp 1546-1555.

SLA R-2579

Sci - Chem

Jun 59

89,594

Belopol'skii, A. P., Taperova, A. A., and
Shul'gina, M. N.
PHYSICOCHEMICAL ANALYSIS IN THE SULFURIC
ACID TREATMENT OF PHOSPHATES: CONVERSIONS
OF CALCIUM SULFATE CRYSTAL HYDRATES IN
THE PRESENCE OF PHOSPHORIC ACID AT 80° C.
[Jan 64] 12p
Order from ATS \$16.75 ATS-46Q73R

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1939,
v. 12, no. 1, p. 3-12.

DESCRIPTORS: Phosphates, Sulfuric acid, *Phosphoric
acids, Hydrates, Crystals, *Calcium compounds,
*Sulfates, Chemical analysis.

(Chemistry--Physical, TT, v. 11, no. 10)

TT-64-12408

I. Belopol'skii, A. P.
II. Taperova, A. A.
III. Shul'gina, M. N.
IV. ATS-46Q73R
V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

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Vol 12, No 7, 1939, -6 (1939)

Determination of Small Concentrations of
Chlorine Ions

N. Z. Kotelnikov +
K. P. Kotelnikova

Ass. Tech. Sci. Series # 127-38
(Jan '51 listing)

ATROSHCHENKO, V. I.

R-2957. Kinetics of absorption of nitrogen oxides by alkaline solutions. Zhur. Priklad Khim., 12, p.167-80, 1939. (20p.)

Chemistry of Titanium, XIII. Separation of Titanium
Dioxide From Sulfuric Acid Solutions, by A. V.
Pamfilov, A. G. Ivancheva, I. M. Soboleva, 13 pp.

Ye.

RUSSIAN, per, Zhur Prik Khim, Vol XII, No 2, 1939,
pp 226-233.

Sci Trans Center RT-873

Scientific - Chemistry

CTS/DEX

14,039

Electrolytic Production of Manganese, by P. B.
Zhivotskiy, Zaretskiy, 10 pp.

RUSSIAN, per, Zhur Priklad Khim, Vol XII, 1939,
pp 635-641.

SLA 57-1513

Jul 58

70,008

Investigation in the Field of Recover Volatile
Solvent Vapours. IV. Investigation of the
Sorption and Desorption of Chlorinated Organic
Solvents on Activated Carbon, by E. V.
Alekseyevskiy, Ya. D. Musin.

RUSSIAN, per, Zhur Prikl Khim, Vol XII,
1939, pp 704-718.

MLL M.3439

Sci - Chem

193,932

Apr 62

Kinetics of Cracking of Hydrocarbons Under Pressure,
by M. D. Tilicheyev, 33pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XII, 1939, pp
741-758.

CIA/FDD XX-829

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Apr 60

May

UBIS INTERNAL USE ONLY

115, 149

The Cathode Process During the Formation of a
Diaphragm-Like Layer, by I. G. Shcherbakov, L. V.
Yumanova, 6 pp.

RUSSIAN, per, Zhur. Prikl. Khim, Vol XII, 1939, pp
826-830.

SLA/R-2459 also t3-18130

Sci
Apr 59

84,901

Determination of the Structural Groups in
Humic Acids, by R. R. Galle, A. G. Nikolayev,
15 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XII, No 6,
1939, pp 923-933.

SLA 59-22351

Sci

OTS, Vol III, No 7

Nov 60

Dept of Interior
TN 7 E57 No 258
133,056

A Laboratory Method for the Preparation of Liquid
 N_2O_4 , by I. E. Ioshpa, O. P. Spiridonova, 5 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol. XII, No 6, 1939,
pp 951, 952. CIA 9021244

NIH

Sci - Chemistry
Jul 58

CFSTI II 64-19392

66,432

Shcherbakov, I. G., Markov, B. F., and Azer'er, K. Ya.

THE ELECTROMOTIVE FORCE OF POLARIZATION IN THE ELECTROLYSIS OF FUSED CARNALLITE. II. INFLUENCE OF CERTAIN TECHNICAL ADMIXTURES IN CARNALLITE ON POLARIZATION. [1963] [10]p. 19 refs.

Order from OTS or SLA \$1.10

63-18301

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1939, v. 12 [no. 7] p. 976-980.

DESCRIPTORS: *Polarization, *Electric potential, Electrolysis, Electrolytes, Potassium compounds, Sulfates, Calcium compounds, Fluorides, Barium compounds, Chlorides, Tests, Measurement, *Carnallite

The objective was to follow the action of sulfur, BaCl_2 and CaF_2 admixtures, possessing significance under technical conditions, in the electrolyte on the cathode process. (Author)

63-18301

I. Shcherbakov, I. G.
II. Markov, B. F.
III. Azer'er, K. Ya.
IV. Title: Influence...

(Chemistry--Physical, TT, v. 10, no. 11)

Office of Technical Services

Nikolaev, N. S.

REACTION OF HYDROGEN SULFIDE WITH SULFUR
DIOXIDE IN AQUEOUS SOLUTIONS. [1963] [18p]
12refs

Order from OTS, SLA, or ETC \$1.60 TT-63-20995

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1939,
v. 12 [no. 7] p. 1013-1021.

DESCRIPTORS: *Hydrogen compounds, *Sulfides,
*Sulfur compounds, Dioxides, Chemical reactions,
Water, Solutions.

(Chemistry--Physical, TT, v. 11, no. 8)

TT-63-20995

I. Nikolaev, N. S.

Office of Technical Services

Some Properties of Sodium Hexametaphosphate,
by A. K. Bronnikov, 13 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XII, No 9,
1939, pp 1286-1294.

SLA R-2474

Sci

Aug 58

72,829

Effect of Sesquioxides on the Process of Formation of
Silicon Carbide, by M. V. Kamentsev, 9 pp.

RUSSIAN, no per, Zhur Prii Khim, Vol XII, 1939,
p 1330.

SLA Tr R-765

Sci - Physics
Sep 57

53,007

On the Mechanism of Iodoxidation of Unsaturated
Compounds, by V. I. Esafov

RUSSIAN, per, Zhur Prik Khim, Vol XII, 1939,
pp 1387-1392.

AEC Tr 1109

Scientific - Chemistry

Zvorykin, A. Ya. and Sokolovskii, A. D.
THE HEATING CURVES OF CARBOHYDRATES.
[1963] 5p. (figs. omitted).
Order from OTS or SLA \$1.10

63-14876

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1939,
v. 12, no. 9, p. 1430-1432.

DESCRIPTORS: *Heating, *Carbohydrates, Chemical
analysis.

(Chemistry--Analytical, TT, v. 10, no. 5)

63-14876

I. Zvorykin, A. Ya.
II. Sokolovskii, A. D.

Office of Technical Services

The Effect of Calcination on the Solubilities
of Glauconite and Phosphorite, by E. N.
Isakov, 12 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XII, 1939,
pp 1644-1652.

SLA R-2177

Sci

Aug 58

72,128

Obtaining Sulphur and Ammonium Sulphate in the
Presence of a Catalyst, by L. I. Kuzmin, V. P.
Kosev, 8 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XII, no 12,
1939, pp 1775-1779.

Sci Mus Lib No 56/2449

Sci - Chemistry

42,848

TT-61-16858

Bozhko, N. P.
CRACKING OF METHANE IN ELECTRIC ARC UNDER
REDUCED PRESSURE, II. [1961] 9p 5refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16858

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1939,
v. 12, no. 12, p. 1816-1825.

I. Bozhko, N. P.

(Engineering--Chemical, TT, v. 12, no. 4)

Office of Technical Services

Preparation of Methyl Chloride From Natural Gas,
by Yu. G. Mamedaliev, V.V. Dement'eva. 8 pp.
RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 12,
No 12, 1939, pp 1826-1834
SLA TT-61-16859

Sci/Chemistry
Jul 66

305,993

Determination of Germanium by Means of 8-Hydroxyquinoline, by I. P. Alimarin, O. A. Alekseyeva, 9 pp.

RUSSIAN, per, Zhur Priklad Khim, Vol XII, 1939, pp 1900-1906.

SLA R-3310

Sci
Jul 59

92, 984

Investigation of Behavior of Titanium Carbide in
Cemented Carbide Alloys, by G. A. Meerson and others.

RUSSIAN, per, Zhur Prik Khim, Vol XIII, No 1, 1940.

Brutcher Tr 1642

13,027

Scientific - Min/Metals

\$8.25

~~13,027~~

The Equilibrium of the System $P_2O_5H_2O$, by K. I.
Zagvozdkin, Y. M. Rabinovich, N. A. Barilko, 12 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XIII, 1940,
pp 29-36.

SLA/R-2595

OTS 63-14609

Sci

Apr 59

84,913

Contribution to the Problem of Production of
Metallic Titanium by Electrolysis of Nonaqueous
Media, by S. I. Sklyarenko, Ya. M. Lipkes, 9 pp.

RUSSIAN, no eng, Zhur Prikl Khim, Vol XIII, No 1,
3 tbl, 1940, pp 51-55.

Def Sci Info Svc
DRM Canada T 110 R

also Bratcher Tr 28-25 2189 - \$5.90

USSR

Scientific - Chemistry

10,799

CIA 2503486

Koller, D. K., Buchel, V. O., and Kal'nin, E. M.
MECHANISM OF REACTIONS OF ELECTRICAL
CRACKING OF HYDROCARBONS. [1961] 9p. 27 refs.
Order from OTS or SLA \$1.10 61-16864

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940,
v. 13, no. 7, p. 1102-1117.

DESCRIPTORS: *Hydrocarbons, Decomposition,
*Methanes, Electric discharges, Chemical reactions,
Free radicals.

The yields of acetylene in electrical cracking of
methane and consumption of electrical energy on its
formation depend on the temperature of the gas in the
discharge. In electrical cracking both the electrical
and thermal energy are to a certain extent interchange-
able. Change of the value of q^* by change of the amount
of electrical energy transmitted to the gas or by its
preheating give, within certain limits, practically the
same effect with respect to the yield and energy spent
for cracking of methane. (Author)

61-16864

I. Koller, D. K.
II. Buchel, V. O.
III. Kal'nin, E. M.

Office of Technical Services
(Engineering--Chemical,
TT, v. 6, no. 7)

Obtaining Regenerated Humic Acids From
Carbonaceous Shales and Their Properties
(Communication II) by L. A. Khristeva

RUSSIAN, per, Zhur Pk Khim, Vol ~~XIII~~, No 1,
1940, p 132.

Dept of Interior
TW7 E57 No 450

115, 958

Sci - Chem

Dec 61

Zh Priklad Khim Vol 13, page 170-80 (1940)

Treatment of Chromiferous Ores With Sulfuric Acid in
the Presence of Oxides. Chromic Anhydride as an ~~Oxidant~~
Oxidant. by K. I. Losev.

AEC Trans(Avail. Brookhaven)

Obolentsev, R.
MECHANISM OF HYDROGENATION OF UNSATURATED HYDROCARBONS. I. COMPOSITION OF TECHNICAL DIISOBUTENE. [1961] 10p. 12 refs.
Order from OTS or SLA \$1.10 61-16865

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940, v. 13, no. 2, p. 198-209.

DESCRIPTORS: *Hydrogenation, *Hydrocarbons, *Butenes, Ethylenes, Polymerization, Gases.

The structure of hydrocarbons composing technical diisobutene has been established. Within the boiling range of Butlerov's diisobutene (100.1 to 103.4°) the following isomers were found: 2,2-dimethyl-3-ethyl-3-butene, 2-methyl-3-isopropyl-3-butene and 3-methyl-3-ethyl-4-pentene. The contents of these isomers in technical diisobutene are of the order of magnitude of their contents in the Butlerov diisobutene. Other (Chemistry--Organic, TT. v. 6, no. 9) (over)

61-16865

I. Obolentsev, R.
II. Title: Composition...

165397

Office of Technical Services

Musatov, K. A. and Krymova, L. G.
MECHANISM OF DESULFURIZATION OF OIL DISTILLATES WITH ZINC CHLORIDE. [1961] 9p. 12 refs.
Order from OTS or SLA \$1.10 61-16866

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940,
v. 13, no. 2, p. 227-234.

DESCRIPTORS: Hydrocarbons, *Kerosene, Benzine,
*Sulfur compounds, Oils, *Desulfurization, Zinc
compounds, Chlorides.

When zinc chloride is deposited from its aqueous solutions on a porous carrier, zinc oxide and zinc hydroxide are formed by hydrolysis and deposited together with the zinc chloride. In desulfurization with solid zinc chloride, its oxygen compounds have a decisive effect on the extent of desulfurization of the distillate and on the combination of hydrogen sulfide. Taking this into (Chemistry--Physical, TT, v. 6, no. 9) (over)

61-16866

I. Musatov, K. A.
II. Krymova, L. G.

185398

Office of Technical Services

Musatov, K. A. and Nifontova, S. S.
VAPOR PHASE OXIDATION OF SULFUROUS AND
AROMATIC DISTILLATES WITH SULFURIC ACID.
[1961] 6p. 9 refs.
Order from OTS or SLA \$1.10 61-16867

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940,
v. 13, no. 2, p. 235-243.

DESCRIPTORS: Benzine, Hydrocarbons, *Sulfur com-
pounds, Oxidation, Sulfuric acid.

In oxidation of oil distillates with sulfuric acid, carbon
and coke catalytically decompose the non-volatile ox-
idation products, liberating hydrogen sulfide. Olefins
and sulfur compounds are oxidized in the vapor phase
much more rapidly than the paraffins and aromatics of
similar boiling range. In the presence of olefins of
sulfur compounds in amounts of 5-10% and higher con-
(Chemistry--Organic, TT, v. 6, no. 9) (over)

61-16867

I. Musatov, K. A.
II. Nifontova, S. S.

185399

Office of Technical Services

Technology of Producing Heavy Water, by V. A. Aleksandro-
vich, M. K. Shelud'ko,

RUSSIAN, no per, Zhur Prik Khimii, Vol XIII, No 4, 1940,
pp 483-498.

National Research Library No ^{11.}1399

11,008

Scientific - Chemistry

Physicochemical Analysis in the Field of Sulfuric
Acid Treatment of Phosphates, IV, by A. A. Taperova,
18 pp. C

RUSSIAN, per, Zhur Prik Khim, Vol XIII, 1940, pp
643-651.

SLA R-3349

Sci

Aug 59

93,552

The Effect of the Addition of Ammonia Oxide in
the Hydrolysis of the Oxidation of Ammonia. Up-
per and Lower Atmospheric Pressure, by V. G.
Tolstoy, N. V. Lomonosov, N. B. Shapovalov, 17 pp.

RUSSIAN, Izv. Vses. Akad. Khim., Vol XIII, 1940,
pp 823-830.

SLA/R-2428

Ref
Apr 59

84,906

Telegin, V.G., Sidorov, N.V., and Shpulenko, K.B.
DE INVLOED VAN HET GEHALTE AAN ALUMINIUM-
OXYDE IN EEN IJZERKATALYSATOR VOOR DE
AMMONIAK-SYNTHESE OP ZIJN ACTIVITEIT BIJ
ATMOSFERISCHE DRUK (Influence of content of
 Al_2O_3 in the Fe catalysts for synthesis of NH_3 on its
activity at atmospheric pressure), tr. by G.J.M.
Fritschy. 15 p. 13 refs. MTWL:489. (Text in Dutch
Order from OTS or ETC \$0.80 61-17009

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940, v. 13,
p. 823-830.

61-17009

1. Ammonia-Synthesis
2. Iron catalysts
- I. Telegin, V.G.
- II. Sidorov, N.V.
- III. Shpulenko, K.B.
- IV. MTWL-489
- V. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

Theory of Equilibrium Concentrations in a
Continuously Flowing Solution and its Application
to Continuous and Standard Reactions of Various
Chemical Processes, by N. I. Kirillov, 40 pp.

RUSSIAN

RUSSIAN; Per, Zhur Prikl Khim, 1940, Vol XIII, No 7,
pp 970-1002.

SLA 59-10542

SLA 61-17377

Sci

Oct 59

Vol 2, No 3

99, 910
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Dynamics of the Adsorption of Acetylene by silica
Gel from Oxygen-Nitrogen Solution, by I. P. Ishkin,
P. Z. Burbo, 14 pp.

RUSSIAN, no per, Zhur Prikl Khim, Vol XIII, No 7,
1940, pp 1022-1027.

Sci Tr Ctr RT-3846

Sci - Chemistry
Aug 56 CTS/dex

37,534

Phenolic Theory of Coal Oxidation, by
B. V. Tronov, 8 pp.

RUSSIAN, no per, Zhur Prikl Khim, Vol XIII,
No 7, 1940, pp 1055-1059.

Sci Tr Center
RT-2213

Scientific - Chemistry
CTS 70/Jul 55

25,213

Handwritten notes:
The phenolic theory
of coal oxidation
developed by
Tronov, B. V. in 1940.
See also, Zhur Prikl Khim, Vol XIII, No 7, 1940, pp 1055-1059.

Characteristics of Coumarin Solutions in Mineral
Acids and a New Method of Isolation of Pure
Coumarin, by A. K. Shumeiko.

RUSSIAN, PER, Zhur Prikl Khim, Vol XIII, 1940, XE
pp 1204-1207.

Assoc Tech Sv
\$6.50 Tr RJ-805

Sci - Chemistry
Aug 57

51,738

KREIMER, G. S.

Zhurnal Prikladnoi Khimii, vol. 13, 1940, pp. 1267-1270; 2 tables, 1400 words.

Simultaneous Reduction of the Oxides of Iron, Titanium and Columbium with Aluminum.

Brutcher Trans, Order No. 1073, \$2.80

Combustion of Carbon. V. Combustion of the Coal
layer, by Z. P. Chukharov, H. A. Karjavina, 30 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol I, No 15, 1940,
pp 1256-1267.

SLA 59-10781

Sci

Nov 59

Vol 2, No 3

101,553

Chemistry of Titanium, XVII. The Effect of Calcination
on the Properties of Titanium Dioxide, by A. V. Pamfilov,
B. G. Ivancheva, K. F. Trekhletov, 8 pp.

1/2.

RUSSIAN, per. Zhur Prik Khim, Vol XIII, No 9, 1940,
pp 1 10-1314.

Sci Trans Center RT-877

Scientific - Chemistry CTS/DEX

14,040

Kinetics of the Absorption Process and Test of
Packing in the Gay-Lussac Semi-Industrial Tower,
by I. N. Kuz'minykh, E. V. Yushmanov, I. A.
Apakhov, 15 p .

RUSSIAN, per, Zhur Prikl Khim, Vol XIII, 1940, pp
1417-1426.

SLA R-3029

Sci

Jul 59

92,413

On the Precipitation of Tin With Phenylarsonic
Acid, by V. I. Kuznetsov, 11 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XIII, 1940,
pp 1512-1516.

AEC UCRL-Tr-572(1)

Sci - Chem
21 Feb 61

1440, 914

Application of the Potentiometric Titration
Method in the Chemical Investigation of
Soap, by A. P. Vishniskov and N. A. Ro-
dichev, 13 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XIII, No
10, 1940, pp 1517-1522.

Assoc Tech Serv

Sci

Aug 58

72,825

Physicochemical Properties of Rare Metals. II. The
Diagrams of State of the Systems $ZrCl_4$ -NaCl and
 ZrO_2 -CaCl, by N. A. Balozerskiy, O. A. Kucherenko.

RUSSIAN, per. Zhur Prik Khim, Vol XIII, No 11, 1940.

AEC Tr 113

AEC Tr 325

Scientific - Chemistry

15,840

Zhur PriKhim Vol 13, No 11, pp 1545-51, 1940

"Directions for Preparation of
the Pure Salts $ZrCl_4$ & $TiCl_5$.

Belozerskiy & Kucherenko

Proj 4459

AT-1544.1

SR 30 Jan 1950

Bal'yan, S. V.
NOMOGRAMS AND S $\frac{1}{2}$ FOR BENZENE-WATER
VAPORS. [1961] 8p. 4 refs.
Order from OTS or SLA \$1.10 61-18104

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1949,
v. 13, no. 11, p. 1612-1619.

DESCRIPTION: Benzene, Water vapor, Thermo-
chemistry.

Nomograms were constructed, based on reliable data
for benzene, which may be used for determination of
the heat of fusion and entropy of mixtures of vapors of
benzene and water, as well as partial pressures of the
components at different concentrations and pressures.
Examples of use of the nomograms are given. (Author)

(Chemistry--Physical, TT, v. 6, no. 7)

61-18104

1. Title: Nomograms.
1. Bal'yan, S. V.

101740

Office of Technical Services

Synthesis of Vinyl Acetate in the Vapor Phase,
by S. N. Ushakov, E. N. Rostovskiy, I. A.
Arbuzova, 13 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XIII, No 11, 1950,
pp 1829-1837.

CIA/FDD/X-1246

Scientific - Chemistry
CTS/DEX

10,061

WHEATON, G. A.
ZETS, G. A.
KROENIG VA, A. V.

Manual printed sheet, vol. 13, 1940, pp. 1776-
1778; 3 tables, 3000 words.

Reduction of Oxides of High-Melting Metals with
Calcium Hydride.

Butcher Trans, Order No. 1100, \$7.55.

Preparing Rubidium and Cesium by Reducing Their
Chlorides, by V. D. Polyakov, A. A. Fedorov, 8 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XIII, 1940,
pp 1833-1838.

LC or SLA 59-10007

Sci - Chemistry
Feb 59

1.80

82,005

The Kinetics of the Dissociation of Pyrite, by
G. I. Chufarov, V. S. Udintseva,

RUSSIAN, no per, Zhur Prikl Khim, Vol XIV, No 1,
1941, pp 3-10.

Sci Tr Center ET TT.371

Scientific - Chemistry

*British Iron and Steel Inst 0.147
1 (no number given).*

The Vapor Pressure of Fluosilicic Acid Solutions,
by V. S. Yatlov, E. M. Pinayevskaya.

RUSSIAN, no per, Zhur Prik Khim, Vol XIV, No 1,
1941, pp 11-13.

Assoc Tech Sv RJ-526
\$4.25 (\$.85)

Sci - Chemistry
Apr 1957 CTS/dex

46,783
SLA R-2955

Velocities of High-Temperature Processes. I. Kinetics
of the Reduction of Magnesium Oxide by Various Re-
agents, by A. S. Mikulinskiy, 17 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XIV, 1941, pp 19-
29.

SLA/R-2517

Sci
Apr 59

84,884

Velocities of High-Temperature Processes, by A.
S. Makulinskiy, P. S. Maron, 13 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol. XIV, 1941,
pp 30-38.

SIA R-2513

Sci + Engr

Jun 59

89,559

Dmitriev, P. I. and Dogadkina, L. A.
ALKYD RESINS ON THE BASE OF POLYGLYCOLS
AND POLYGLYCEROLS. [1962] [25]p. (refs. omitted).
Order from OTS or SLA \$2.60 62-18189

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1941,
v. 14, no. 1, p. 110-119.

DESCRIPTORS: *Plastic films, *Alkyd resins, Produc-
tion, *Glycols, *Glycerols, Polymers, Hardness,
Elasticity, Viscosity.

(Materials--Paints, TT, v. 10, no. 1)

62-18189

- I. Dmitriev, P. I.
- II. Dogadkina, L. A.

Office of Technical Services

Study of Conditions of Carburization of Titanium, by
G. A. Meerson and Ya. M. Lipkes.

RUSSIAN, Zhurnal Prikl Khim, Vol XIV, No 3, 1941.

Brutcher Tr 2099

4103

Scientific • Min/Metals

\$2.80

Abdulayev, Ya. A.
SOLUBILITY OF NITROGEN-HYDROGEN MIXTURE
IN LIQUID CARBON DIOXIDE. [1961][7]p.
[DSR LLU] M 1899.

Order from LC or SLA mi\$1.80, pt\$1.80 61-13294

Trans. of [Zhurnal Prikladnoy Khimii] (USSR) 1941,
v. 14, no. 3, p. 302-304.

61-13294

1. Nitrogen--Solubility
 2. Hydrogen--Solubility
 3. Carbon dioxide (Liquid)--
Solvent properties
 4. Ammonia--Synthesis
- I. Abdulayev, Ya. A.
II. DSR LLU M.1899

OTS 62-24461

106580

Office of Technical Services

(Engineering--Chemical, IT, v. 5, no. 12)

Concerning Certain Factors That Determine the
Electrical Properties of the Lead Accumulator,
by P. D. Samsonov, N. G. Kuznetsova, 45 pp.

RUSSIAN, Per, Zhur Prik Khim, 1941, Vol XIV,
pp 317-334.

SLA 59-10133

K-H 9215

Sci

Nov 59

Vol 2, No 3

100,942

Strelkov, P. G. and Lin'kov, V. I.
STANDARDIZATION OF A RESISTANCE THERMOM-
ETER AT THE OXYGEN POINT. [1961] 13p. 12 refs.
Order from OTS or SLA \$1.60 61-18072

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941,
v. 11, p. 367-377.

DESCRIPTORS: *Resistance thermometers, Thermom-
eters, Standardization, Oxygen, Determination.

(Physics--Thermodynamics, TT, v. 7, no. 9)

61-18072

I. Strelkov, P. G.
II. Lin'kov, V. I.

Office of Technical Services